

Safety Data Sheet

according to Regulation (EC) No 453/2010



Revision Date : 14.05.2015

1.1. Product ide	entifier	Amino and At
Product Name	e : Artline	400XF Paint Marker EK-400 XF Color: (Blue)
	Artline	440XF Paint Marker EK-440 XF
	Artline	444XF Paint Marker EK-444 XF
	Artline	409XF Paint Marker EK-409 XF
1.2. Relevant id	entified uses of the	e substance or mixture and uses advised against
Recommende	d use : Permar	nent marker ink
1.3. Details of th	ne supplier of the s	afety data sheet
Supplier	Company Name Address Telephone Fax Contact (e-mail)	 Shachihata (Europe) Limited Unit 8, Ashville Way, Sutton Weaver, Runcorn, Cheshire, WA7 3EZ, England 0870 600 5 006 0871 200 5 006 www.artline-xstamper.com
Manufacturer	Company Name Address Telephone Fax Contact (e-mail)	 Shachihata Inc. 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan +81-52-521-3600 +81-52-521-3899 chem-analysis@ngy.shachihata.co.jp

Telephone: 0870 600 5 006

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification (REGULATION (EC) No 1272/2008)		
Flammable liquids, Category 2		: Highly flammable liquid and vapour
Aspiration toxicity, Category 1	H304	: May be fatal if swallowed and enters airways
Skin corrosion / irritation, Category 2		: Causes skin irritation
Specific target organ toxicity,		: May cause drowsiness or dizziness
single exposure, Category 3 (narcotic effects)		
Hazardous to the aquatic environment,	H411	: Toxic to aquatic life with long lasting effects
chronic toxicity, Category 2		

2.2. Label elements

Signal word

Hazard pictograms

Labelling (REGULATION (EC) No 1272/2008)



Hazard statement :		Highly flammable liquid and vapour	(H225)
		May be fatal if swallowed and enters airways	(H304)
Causes skin irritation		Causes skin irritation	(H315)
		May cause drowsiness or dizziness	(H336)
		Toxic to aquatic life with long lasting effects	(H411)

Precautionary statement

[Prevention]

Keep away from heat/sparks/open flames/hot surfaces No smoking.	(P210)
Take precautionary measures against static discharge.	(P243)
Avoid breathing dust/fume/gas/mist/vapours/spray.	(P261)

Wear protective gloves/p	rotective clothing/eye protection/face protection.	(P280)
Wash hands thoroughly a	(P264)	
Use only outdoors or in a	well-ventilated area.	(P271)
Avoid release to the envir	ronment.	(P273)
[Response]		
In case of fire	: Use dry chemical powder, form or carbon dioxide for extinction.	(P370+P378)
IF SWALLOWED	: Immediately call a POISON CENTER or doctor/physician.	(P301+P310)
	Get medical advice/attention if you feel unwell. Rinse mouth.	(P301+P314+P330)
IF INHALED	: Remove victim to fresh air and keep at rest in a position comfortable	(P304+P340)
	for breathing.	
IF IN EYES	: Rinse cautiously with water for several minutes.	(P305+P351+P338)
	Remove contact lenses, if present and easy to do. Continue rinsing.	
If eye irritation persists	: Get medical advice/attention.	(P337+P313)
IF ON SKIN (or hair)	: Remove/Take off immediately all contaminated clothing.	(P303+P361+P353)
	Rinse skin with water/shower.	
IF ON SKIN	: Wash with plenty of soap and water.	(P302+P352)
If skin irritation occurs	: Get medical advice/attention.	(P332+P313)
Do NOT induce vomiting.		(P331)
Collect spillage.		(P391)
[Storage]		
Store in a well-ventilated place. Keep container tightly closed.		(P403+P233)
【Disposal】		
Dispose of contents/cont	ainer to waste in accordance with	(P501)
local/regional/ nationa	l/international regulation (to be specified).	

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredients :

Chemical Name / Generic name	Composition weight %	CAS-No. EC-No.	Classification (REGULATION (EC) No 1272/2008)	
		Index	Hazard Class	Hazard statement
Isoparaffinic Hydrocarbon	45 ~ 55	90622-56-3 292-458-5	Flam.Liq. 2 Asp.Tox. 1 Skin Irrit.2 STOT.SE. 3 Aquatic Chronic 2	H225 H304 H315 H336 H411
Titanium dioxide	5 ~ 15	13463-67-7 236-675-5	none	none

SECTION 4: First aid measures

4.1. Description of first aid measures IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist. IF ON SKIN Remove/Take off immediately all contaminated clothing.Wash with soap and water. If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.Continue rinsing.If eye irritation persists, get medical advice/attention. IF SWALLOWED After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach, and do not vomit forcibly.Moreover, do not give anything from the mouth to the patient when not conscious.Receive the doctor's treatment (stomach pump) promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media

: Dry chemical powder, foam or carbon dioxide

: Water jet

- 5.2. Special hazards arising from the substance or mixture For initial stage extinction, carbon dioxide or dry chemical powder. When a fire extends, fire is extinguished by a large amount of water spray. Do not discharge extinguishing waters into the aquatic environment.
- 5.3. Advice for firefighters

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn. Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures Evacuate personnel to safe area. Shut off all sources of ignition. No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.
- 6.2. Environmental precautions
 - Do not throw the leakage thing directly into environment
- 6.3. Methods and material for containment and cleaning up In case of a small spill, absorb with dry sand, soil, sawdust, cloth, etc., then place in a chemical waste containers. In case of large spills, dike and prevent overflow, cover spills with foam, then place in a chemical container using non-sparking tools.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
- Advice on safe handling : Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Requirements for storage : Keep containers tightly closed and store in a cool and dry place. Keep away from heat and flame, ignition source and sunlight. areas and containers Keep out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters DIRECTIVE 2000/39/EC DIRECTIVE 2006/15/EC DIRECTIVE 2009/161/EU	Not listed Not listed Not listed			
EH40/2005 Workplace exposure lir	nits			
Titanium dioxide	TWA	10 mg/m ³		
ACGIH (2013) Titanium dioxide	TWA	10 mg/m ³		
8.2. Exposure controls				
Personal protective equipment				
Respiratory Protection : Use with local exhaust ventilation, when in long use. Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.				
Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.				
Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.				
Skin Protection : Avoid skin	: Avoid skin contact. Wear personal protection apron, boots, if necessary.			
Environmental exposure controls				
General advice : Prevent pr	oduct from entering	drains.		
Prevent fu	Prevent further leakage or spillage if safe to do so.			

If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic ph	ysical and chemical properties
Appearance	: blue liquid

Odour: minor solvent odourpH: Not applicableBoiling point: No data availableFlash point: 11 °C (closed cup)Relative Density (at 25 °C): 0.8 ~ 1.0 (g/cm³)Solubility in Water: Insoluble	Appearance	. blue liquid
Boiling point: No data availableFlash point: 11 °C (closed cup)Relative Density (at 25 °C): 0.8 ~ 1.0 (g/cm³)	Odour	: minor solvent odour
Flash point: 11 °C (closed cup)Relative Density (at 25 °C): $0.8 \sim 1.0$ (g/cm3)	рН	: Not applicable
Relative Density (at 25 °C) : $0.8 \sim 1.0$ (g/cm ³)	Boiling point	: No data available
	Flash point	: 11 °C (closed cup)
Solubility in Water : Insoluble	Relative Density (at 25 °C)	$: 0.8 \sim 1.0 $ (g/cm ³)
	Solubility in Water	: Insoluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures.

- 10.3. Possibility of hazardous reactions
 - No data available
- 10.4. Conditions to Avoid
- High temperature, Direct sunlight, Fire
- 10.5. Incompatible Materials
 - No data available
- 10.6. Hazardous decomposition products
 - CO, CO_2

SECTION 11: Toxicological information

11.1. Information on toxicologica	I effects			
Acute toxicity	: LD/LC50 values that are relevant for classification			
	[Isoparaffinic Hyd	lrocarbon]		
	Oral-rat	LD50	>5,000mg/kg	
	Inhalation-rat	LC50	21 mg/l/4H	
	Dermal-rabbit	LD50	>2,000mg/kg	
Aspiration toxicity, Category 1	: Category 1	May be fatal if	swallowed and enters airways.	
Skin corrosion / irritation	: Category 2	Causes skin irr	itation.	
Specific target organ toxicity single exposure	: Category 3	May cause dro	wsiness or dizziness.	
Carcinogenicity	: Titanium dioxide has been classified by the IARC as Group 2B.			
	Other materials ; Not contain any component that is considered			
	a human carcinogen by IARC, ACGIH, EPA, EU or NTP .			

Regarding the carcinogenicity of titanium dioxide, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH(American Conference of Governmental Industrial Hygienists) ,EPA(Environmental Protection Agency),EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data.

SECTION 12: Ecological information

12.1. Toxicity	: Category 2 Toxic to aquatic life with long lasting effects
12.2. Persistence and degradability	: No data available
12.3. Bioaccumulative potential	: No data available
12.4. Mobility in soil	: No data available
12.5. Results of PBT and vPvB assessment	: No data available
12.6. Other adverse effects	: No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methodsDisposal must be made according to official regulations.Comply with all Federal, State, and Local regulations regarding disposal.Do not allow product to reach ground, any water course or sewage system.

SECTION 14: Transport information			
14.1. UN number	DOT, ADR, IMDG, IATA	: UN1210	
14.2. UN proper shipping name	DOT, ADR, IMDG, IATA	: PRINTING INK,flammable	
14.3. Transport hazard class(es)	DOT, ADR, IMDG, IATA · Class · Label	: 3 (Flammable liquids.) 3	
14.4. Packing group	DOT, ADR, IMDG, IATA	: 11	
14.5. Environmental hazards	Marine pollutant	: No	
14.6. Special precautions for user	EMS Number	: F-E,S-D	
14.7. Transport in bulk according to Annex II MARPOL 73/78 and the IBC Code	of	: Not applicable.	

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture < EU Information >

Regulation (EC) No 1272/2008 (CLP)
Substance name	: [Isoparaffinic Hydrocarbon]
Hazard Class & Category	: Flammable liquids, Category 2
	Aspiration toxicity, Category 1
	Skin corrosion / irritation , Category 2
	Specific target organ toxicity - single exposure, Category 3
	Hazardous to the aquatic environment, chronic toxicity, Category 2
Symbols	: GHS02,GHS08,GHS07,GHS09
Signal word	: Danger
Hazard statements	: H225 Highly flammable liquid and vapour
	: H304 May be fatal if swallowed and enters airways
	: H315 Causes skin irritation
	: H336 May cause drowsiness or dizziness
	: H411 Toxic to aquatic life with long lasting effects

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC) This product does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenylethers (PBDE).

This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.